
Project Proposal: Digit Recognizer

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Abstract

BACKGROUND. The idea of recognizing digit . The goal in this project is to take an image of a handwritten single digit, and determine what that digit is. Kaggle competition. We propose to

1 Introduction

2 Approach

2.1 Baseline Methods

2.2 Methods to Investigate

3

4 Submission of papers to NIPS 2013

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Acknowledgments

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[1] Alexander, J.A. & Mozer, M.C. (1995) Template-based algorithms for connectionist rule extraction. In G. Tesauero, D. S. Touretzky and T.K. Leen (eds.), *Advances in Neural Information Processing Systems 7*, pp. 609-616. Cambridge, MA: MIT Press.

[2] Bower, J.M. & Beeman, D. (1995) *The Book of GENESIS: Exploring Realistic Neural Models with the GEneral NEural Simulation System*. New York: TELOS/Springer-Verlag.

[3] Hasselmo, M.E., Schnell, E. & Barkai, E. (1995) Dynamics of learning and recall at excitatory recurrent synapses and cholinergic modulation in rat hippocampal region CA3. *Journal of Neuroscience* **15**(7):5249-5262.